

CLAIMS

What is claimed is:

1. A fluid filter assembly comprising:
a housing having an end and defining a cavity;
a first tube supported by said end and in fluid communication with said cavity;
a diverter arranged within said cavity and including first and second sides with said first side proximate to said end, said diverter including a wall in said first side proximate to said first tube and in sealing engagement with at least one of said first tube and said end, said first tube in fluid communication with said second side; and
a filter media having a portion supported by said second side.
2. The assembly according to claim 1, wherein said first side wall is cylindrical and defines an aperture with an edge of said cylindrical wall in sealing engagement with said end of said housing.
3. The assembly according to claim 2, wherein said diverter includes a hole extending between said first and second sides and in fluid communication with said aperture.
4. The assembly according to claim 2, wherein said diverter includes a first material and a second material adhered to said first material, said second material defining at least a portion of said first side including said edge of said cylindrical wall.

5. The assembly according to claim 4, wherein said second material defines a side wall opposite said cylindrical wall and in engagement with said end of said housing.

6. The assembly according to claim 4, wherein said second material defines a central wall arranged between said cylindrical wall and said side wall with said central wall in engagement with said end of said housing.

7. The assembly according to claim 1, wherein said filter media includes a central opening with said first tube offset from said central opening, said end supporting a second tube in fluid communication with said cavity, and said filter media arranged between said first and second tubes.

8. The assembly according to claim 7, wherein said housing includes a case defining said end and a cover opposite said end secured to said case, said cover supporting a third tube in fluid communication with said cavity, and said filter media arranged between said second and third tubes.

9. The assembly according to claim 1, wherein said diverter includes a diverter base with said wall comprising a gasket supported by said diverter base.

10. A fluid filter diverter assembly comprising:
- first and second sides spaced from one another;
- a first material and a second material supported on said first material, said second material defining at least a portion of said first side;
- an adhesive arranged on said second side; and
- a filter media embedded in said adhesive, said first side having a wall defining an aperture in fluid communication with said second side proximate to said filter media, and said second material defining at least a portion of said wall.
11. The diverter according to claim 10, wherein said first material is a plastic and said second material is an elastomer.
12. The diverter according to claim 10, wherein said filter media defines a central opening and said first side includes a center tube at least partially within said central opening.
13. The diverter according to claim 10, wherein said first side wall is cylindrical with an edge of said cylindrical wall defined by said second material, and including a hole extending between said first and second sides and in fluid communication with said aperture.
14. The diverter according to claim 13, wherein second material defines a side wall opposite said cylindrical wall, and said second material defining a central wall arranged between said cylindrical wall and said side wall.

15. The diverted according to claim 10, wherein said second material is adhered to said first material.

16. A method of manufacturing a fluid filter assembly comprising the steps of:
 - a) providing a diverter base having a passageway;
 - b) securing a gasket onto the diverter base to form a diverter;
 - c) adhesively securing a filter media onto the diverter base.
17. The method according to claim 16, wherein step b) is performed subsequent to step a).
18. The method according to claim 17, wherein step b) includes molding the gasket onto the diverter base.
19. The method according to claim 16, further including steps of applying the adhesive onto a cover, and embedding the filter media into the adhesive on the cover.
20. The method according to claim 16, further including the step of installing the diverter from step b) into a housing with the gasket engaging the housing.
21. The method according to claim 20, wherein the housing includes a tube in fluid communication with the passageway with at least a portion of the gasket material disposed about the tube.